

Ministry of Education and Science of Ukraine
ODESSA I.I. Mechnikov NATIONAL UNIVERSITY
FACULTY of MATHEMATICS, PHYSICS and INFORMATION TECHNOLOGY

2, Dvoryanskaya str., 65082, Odessa. Ukraine phones: + 380(48)7231223
e-mail: imem@onu.edu.ua <http://onu.edu.ua/uk/structure/faculty/fmfit>

Extract on the credit and examination data

The document is issued to **MALAKHOVTSEV ANDRII DENYSOVYCH** to certify that he studies at the Odesa I.I. Mechnikov National University at the first level of higher education, majoring in 126 "Information Systems and Technologies" (state order), the third year of studies, Bachelor's Degree. During his studies, he studied the following disciplines, passed exams and credits:

Component code (if available)	Component title or learning outcome	Number of ECTS credits, hours	Institutional Grade
1 course			
1	Algorithmization and programming	6/180	Satisfactory / 70 / D
2	Higher Mathematics - Algebra and Geometry	5/150	Good / 80 / C
3	Higher Mathematics - Differential Equations	4/120	Passed / 75 / C
4	Higher Mathematics - Mathematical Analysis	6/180	Passed / 65 / E Good / 80 / C
5	Discrete mathematics	3.5/105	Satisfactory / 70 / D
6	Foreign Language	3/90	Passed / 96 / A Passed / 95 / A
7	History of Ukraine	3/90	Good / 85 / B
8	History of development of mathematical modeling	3/90	Passed / 70 / D
9	History of Ukrainian Culture	3/90	Passed / 80 / C
10	Coursework on the Object-Oriented Programming	1/30	Excellent / 100 / A
11	Coursework on Operating systems and environments	1/30	Excellent / 90 / A
12	Object-Oriented Programming	4/120	Excellent / 97 / A
13	Operating systems and environments	3/90	Passed / 69 / E
14	Data Structures and Algorithms	5.5/165	Excellent / 90 / A
15	Physics	6/180	Passed / 93 / A Excellent / 95 / A
16	Physical Training (out of credit)	3/90	Passed / 60 / E
2 course			
17	Electronics and electrical engineering	3.5/105	Passed / 75 / C
18	Foreign Language	2/60	Excellent / 95 / A
19	Computer Graphics	4/120	Good / 85 / B
20	Computer circuit design	4.5/135	Passed / 90 / A
21	Cryptography	5/150	Passed / 80 / C
22	Coursework on System programming	1/30	Good / 85 / B



23	Coursework on Web technology and WEB design	1/30	Excellent / 97 / A
24	Mathematical methods of operations research	3.5/105	Satisfactory / 64 / E
25	Systems modeling	4/120	Excellent / 90 / A
26	Occupational Health and Safety	3/90	Excellent / 100 / A
27	System programming	5/150	Passed / 80 / C
28	Theoretical mechanics and motion control	6/180	Good / 75 / C
29	Theory of probability and mathematical statistics	4.5/135	Good / 89 / B
30	Ukrainian Language (for professional purposes)	3/90	Good / 75 / C
31	Basic Training Practice	3/90	Satisfactory / 60 / E
32	Numerical Methods	3.5/105	Passed / 64 / E
33	Web technology and WEB design	3.5/105	Excellent / 96 / A

The total number of credits during the study period is 117 credits according to the European Credit Transfer and Accumulation System

Dean of the faculty

SIGNATURE

Yury Nitsuk

OFFICIAL SEAL:

Ministry of Education and Science of Ukraine
Odesa I.I. Mechnikov National University
Faculty of Mathematics, Physics and
Information Technologies

Certification by Translator

I, Chernovytska Nataliya Volodymyrivna, certify that I am fluent in the English, Russian and Ukrainian languages and that the above document is an accurate translation of the document attached entitled Extract

Chernovytska Nataliya Volodymyrivna

19, Lanzheronovskaya str., Odessa

+38067-966-82-32

15.09.2022

